SONY

3-753-477-21(4)

AV Control Amplifier

Operating Instructions

TA-E511
TA-E611

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Precautions

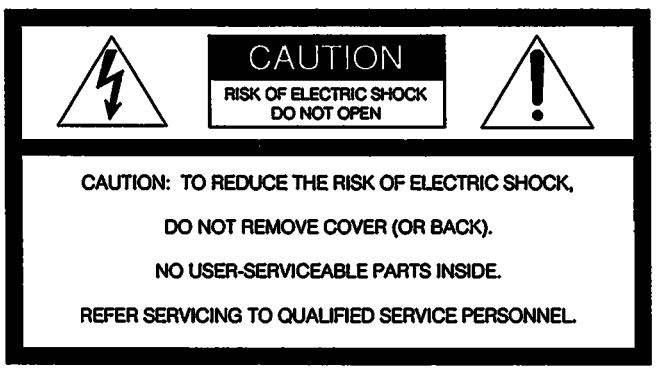
OWNER'S RECORD

The model and serial numbers are located at the rear. Record these numbers in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No._____ Serial No._____

WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

* The graphical symbols are on the rear enclosure.

INFORMATION

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna
Relocate the equipment with respect to the receiver
Move the equipment way from the receiver
Plug the equipment into different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal communications commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

On safety

- Operate the unit only on 120 V AC, 60 Hz.
- Should any solid object or liquid fall into the unit, unplug it and have it checked by qualified personnel before operating it any further.
- Unplug the unit from the wall outlet if it is not to be used for an extended period of time. To disconnect the cord, pull it out by grasping the plug. Never pull the cord itself.

On installation

- Place the unit on a level surface.
- Do not install the unit in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- Good air circulation is essential to prevent internal heat build-up in the unit. Place the unit in a location with adequate air circulation. Do not place the unit on a soft surface, such as a rug that would block the ventilation holes on the bottom.
- Do not place anything on top of the cabinet. The top ventilation holes must be unobstructed for the proper operation of the unit and to prolong the life of its components.

On cleaning the cabinet

Clean the cabinet, panel and controls with a soft cloth lightly moistened with mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

On repacking

Do not throw away the carton and the packing material. It makes an ideal container to transport the unit in.

If you have any question or problem concerning your unit, please consult your nearest Sony dealer.

For detailed precautions, see the leaflet "IMPORTANT SAFEGUARD".

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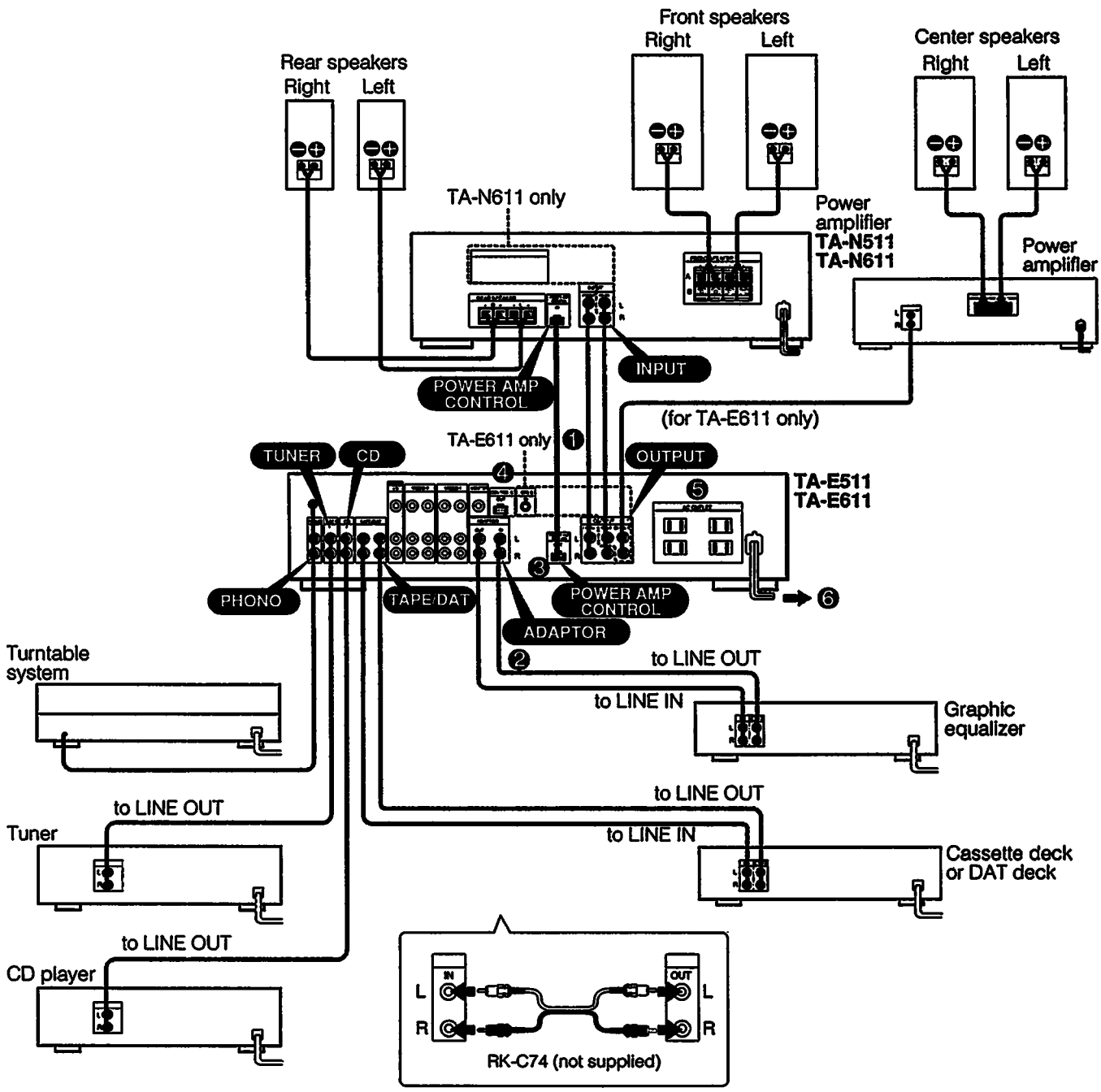
* Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. numbers 3,632,886, 3,746,792 and 3,959,590; Canadian numbers 1,004,603 and 1,037,877. "DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

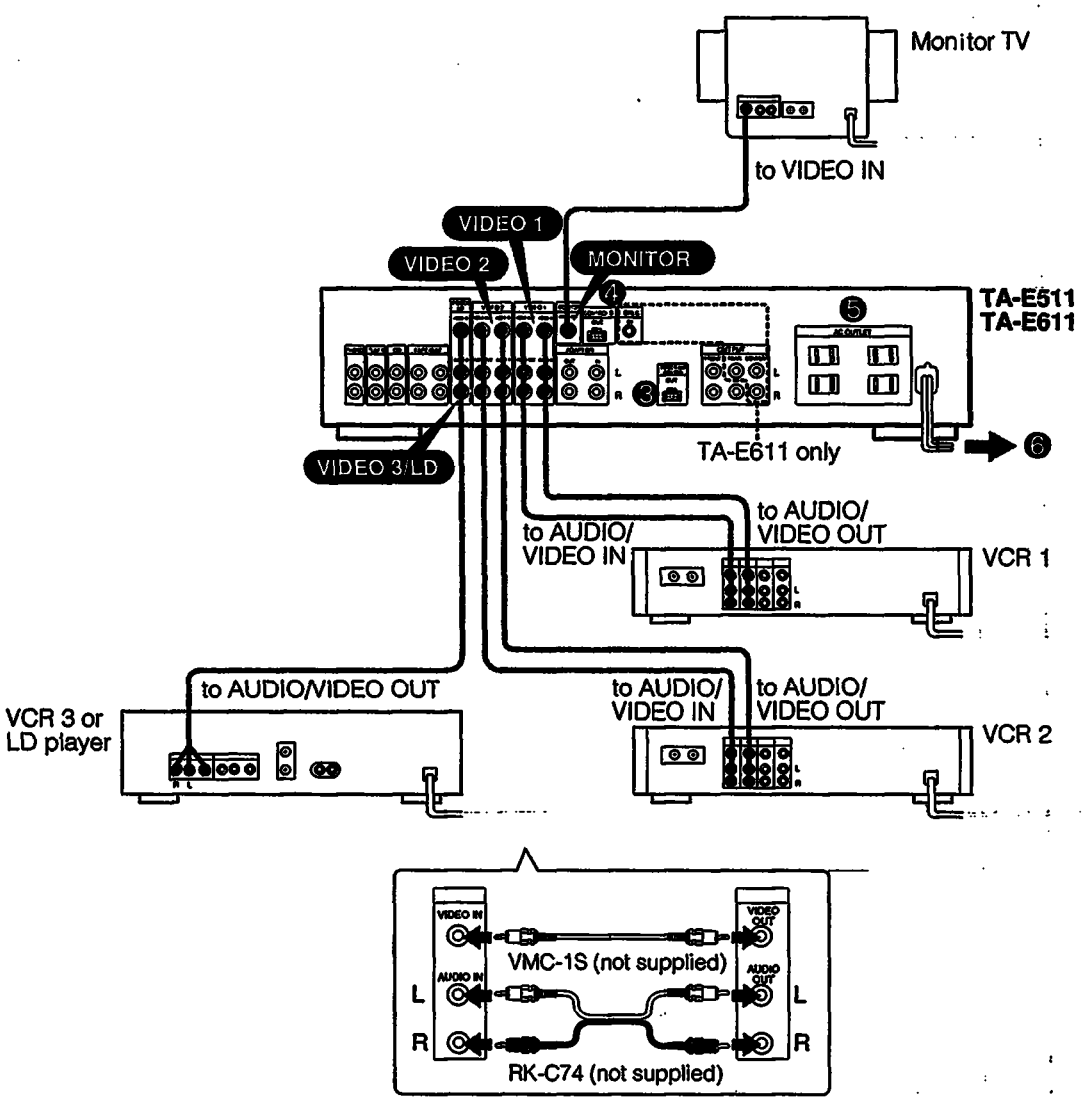
Connections

- Connect the AC power cord last. Make sure power is off.
- Cord plugs and jacks are color coded. Red plugs and jacks are for right channel (R) and white ones for the left channel (L).
- The cable connectors should be fully inserted into the jacks. A loose connection may cause hum and noise.

Connecting Audio Equipment



Connecting Video Equipment



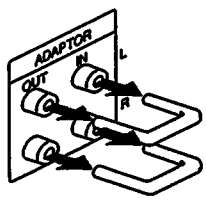
Connections

❶ Connections for surround sound and DRLC (TA-E611 only)

The TA-E511 has a monoural output for rear speakers of the TA-N511.
The TA-E611 has left and right outputs for rear and DRLC speakers of the TA-N611, and for center speakers which need to be connected through an stereo amplifier.

❷ Connecting a graphic equalizer, etc.

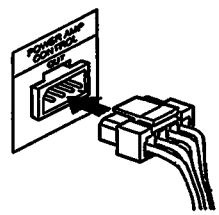
Before connecting the equipment such as a graphic equalizer, remove the shorting plugs.



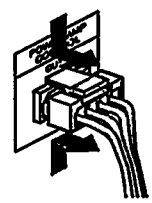
Note
When the equipment such as a graphic equalizer is not connected, be sure to install the shorting plugs. Otherwise, no sound is heard from the speakers.

❸ Power amp control cord (supplied)

Connect the POWER AMP CONTROL OUT jack on the rear to the POWER AMP CONTROL IN jack of the power amplifier TA-N511/TA-N611. The output of the power amplifier is controlled by the unit.



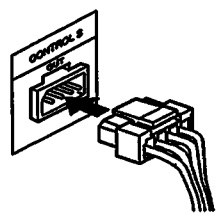
Push in until it clicks.



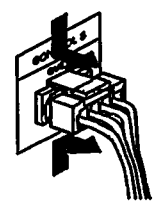
To disconnect.

❹ Flat remote control cord (not supplied)

Connect to the CONTROL S IN jack of other Sony equipment with the flat remote control cord for whole audio system remote control.



Push in until it clicks.



To disconnect.

❺ AC OUTLETs (SWITCHED)

Use these to power audio components whose total power comsuption is less than the wattage indicated on the AC outlets.
These outlets are controlled by the SYSTEM POWER switch.

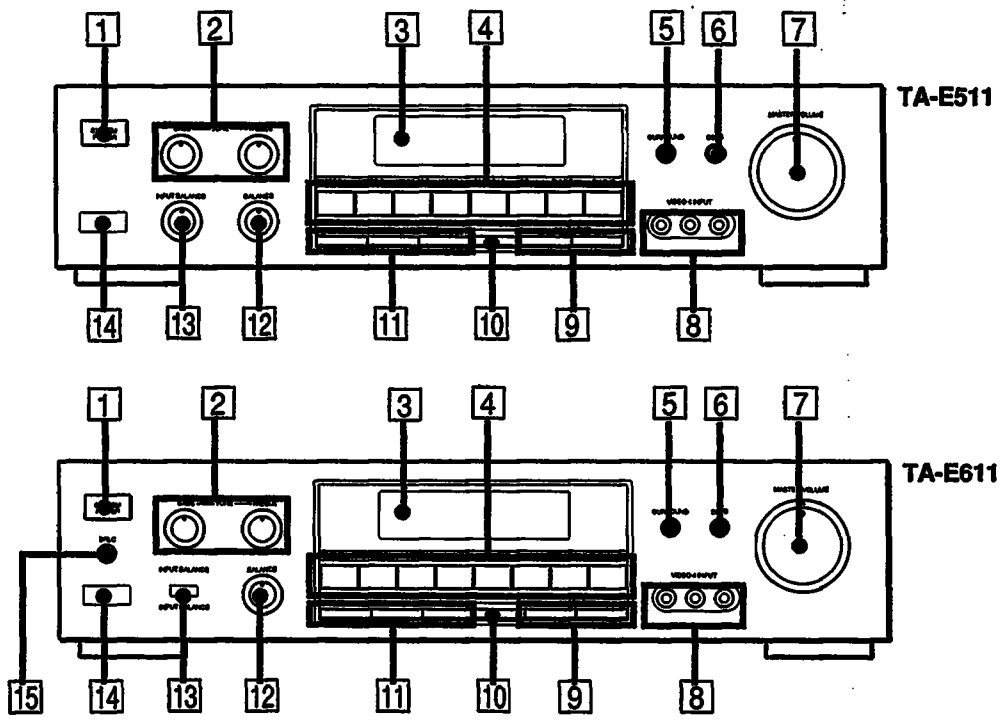
CAUTION
Do not connect any electrical home appliances such as an electric iron, fan, TV or other high wattage equipment to these AC outlets.

❻ Power cord

Connect to a wall outlet.

Location and Function of Controls

Front Panel



1 SYSTEM POWER switch

2 TONE (BASS and TREBLE) controls

3 Display window

4 Function selectors

5 SURROUND button

6 DBFB button

7 MASTER VOLUME control

8 VIDEO 4 INPUT jacks

9 REAR LEVEL +/– buttons

10 DELAY TIME button

11 SURROUND selectors (TA-E511)
SURROUND MODE selectors and DOLBY PRO LOGIC buttons (TA-E611)

12 BALANCE control

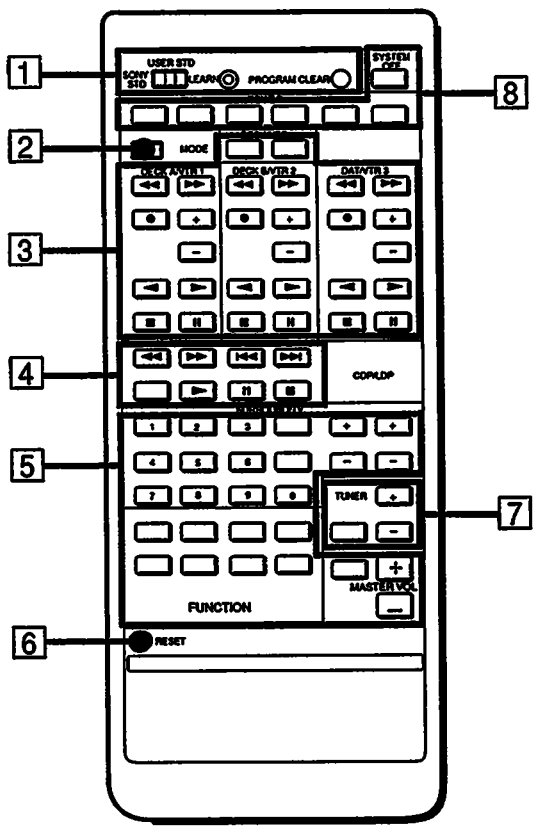
13 INPUT BALANCE control (TA-E511)
AUTO INPUT BALANCE indicator (TA-E611)

14 Remote control sensor

15 DRLC (Dual Room Link Control) button (TA-E611)

Location and Function of Controls

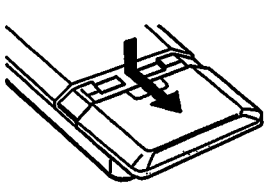
Programmable Remote Commander RM-P312



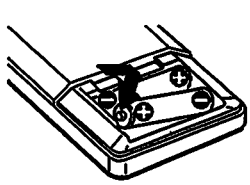
Loading the Batteries

Insert two R6 (size AA) batteries with correct polarity.

1



2



Battery life
About half a year of normal operation can be expected when using the Sony SUM-3 (NS) batteries.
When the batteries are exhausted, the commander can no longer operate the unit. Replace both batteries with new ones.

To avoid battery leakage
When the commander is not to be used for a long period of time, remove the batteries to avoid damage caused by battery leakage and corrosion

To avoid malfunction of the remote commander
Avoid keeping the commander under extremely hot or humid locations.

The RM-P312 can "learn" various functions of other remote commanders which use infrared rays. When the mode selector is set to SONY STD (Sony standard), buttons on the RM-P312 can be used to perform the functions below:

[1] Program control section

Mode selector and indicator
SONY STD: To control Sony equipment.
USER STD: To control equipment whose remote control functions are stored.
LEARN: To store functions of other remote commanders emitting infrared rays.
PROGRAM CLEAR button: Clears the stored functions.

[2] MODE selector

Selects the function mode on the remote commander.
1: To select the function indicated in light gray such as DECK, DAT, CD player and surround mode of amplifier.
2: To select the functions indicated in blue such as VCR, LDP (Laser disc player) and TV.

[3] Tape deck/DAT/VTR control section

ANT (antenna) TV/VTR button: Selects the output signal from the antenna terminal on the VCR, either a TV signal or VCR programs.
VTR CH (channel) +/– buttons: Select channel on the VCR.
◄◄/►►: Fast winding
●: Recording
◄/►: Play
■: Stop
❚❚: Pause
REC MODE REV/FWD buttons:
For reverse recording, press REV and ● together.
For forward recording, press FWD and ● together.

[4] CD/LD player control section

The combined CD/LD player can be controlled with LDP position.
D.(disc) SKIP: Disc skip (for a CD player equipped with a multi-disc changer)
►: Play
❚❚: Pause
■: Stop
◄◄/►►: Manual search (only for LD player)
I◄◄/►►I: Locates a desired selection.

[5] Amplifier/TV section

TV/VIDEO button: Selects the input signal of the TV. (for TV)
Program number (1 to 0) and ENTER buttons: Select the channel. (for TV)
SURROUND mode selectors
(for the AV control amplifier)
ON/OFF: Turns on/off the surround mode.
MODE: Selects the surround mode.
T.(test) TONE: Outputs test tone to each speakers in succession. (only for TA-E611)
DELAY: Adjusts the delay time.
FUNCTION selectors: Select an input source of the AV control amplifier. (for the AV control amplifier)
CENTER VOL /TV VOL +/– buttons: Control the volume of TV. (The buttons do not function for the AV control amplifier.)
REAR VOL /TV CH +/– buttons: Control the volume of rear speakers or channel of TV.
DBFB button: Turns on/off the DBFB (Dynamic Bass Feed Back). (for the AV control amplifier)
MASTER VOL +/– buttons: Control the amplifier volume. (for the AV control amplifier)

[7] Tuner control section

SHIFT button: Selects a memory page.
PRESET +/– buttons: Select a preset station.

[8] Power control section

SYSTEM OFF button: Turns off the power of the whole system: LDP, VTR, TV, and AUDIO.
LDP/VTR1/VTR2/VTR3/TV/AUDIO POWER buttons: Control the power of each unit. (The VTR button can be operative only when TAPE/VTR selector is set to VTR.)

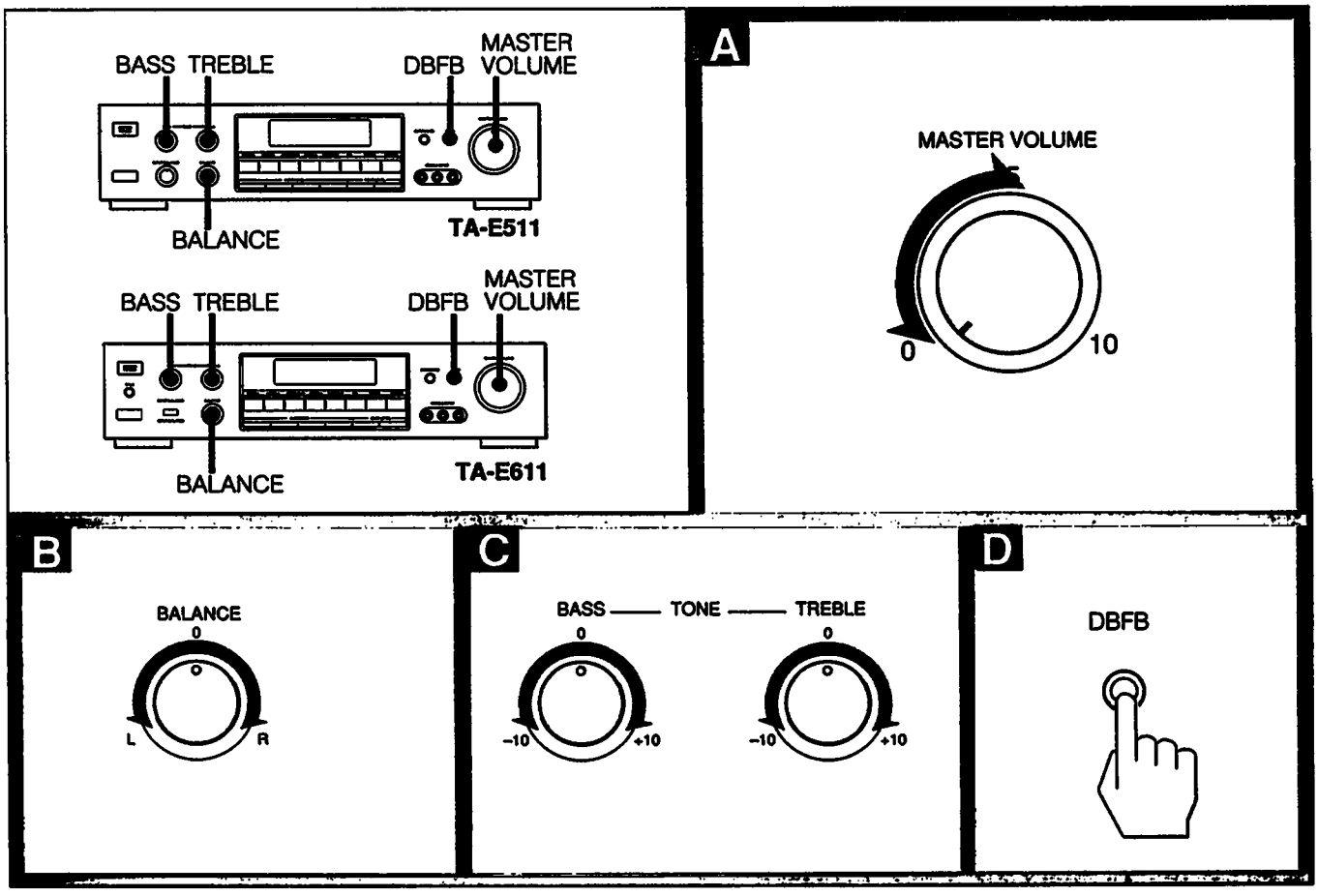
Note on the ● (recording) button under [3] Tape deck/ DAT/VTR control section

If your recorder is of such type as pressing ● puts it in recording pause mode, first press ● on this commander and then ❚❚.

Note:

The ◄/► (play) buttons in [3] and [4] and the SHIFT button and PRESET +/– buttons in [7] can function without pressing one of the FUNCTION buttons in [5], if the CD player is connected to the CD jacks, the tape deck to the TAPE jacks, and the video deck to the VIDEO 1 jacks (switch the MODE on the remote commander to VTR 1).

Adjusting the Sound



Adjusting Volume A

To increase the volume, turn the MASTER VOLUME control clockwise.
To decrease it, turn the control couterclockwise.

Note
Turn down the volume before switching on the unit. This prevents damage to speakers.

Adjusting Left and Right Sound Balance B

Adjust BALANCE control to correct stereo imaging when the speaker position is not symmetrical.

Adjusting Tone from the Front Speakers C

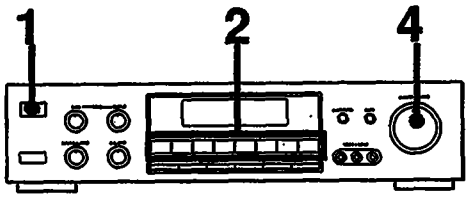
To enhance treble or bass sound from the front speakers, turn the TREBLE or BASS control clockwise.
To attenuate them, turn the TREBLE or BASS control counterclockwise.

Reinforcing the Bass D

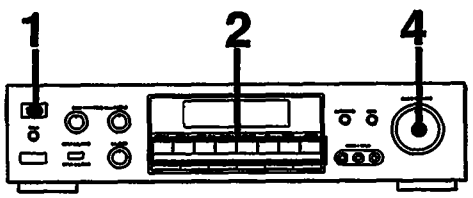
To obtain powerful bass sound, press DBFB (Dynamic Bass Feed Back) button. The indicator in the display lights up. The lower the volume is, the more the bass is emphasized.

Listening to/Watching Program Source

Basic operation



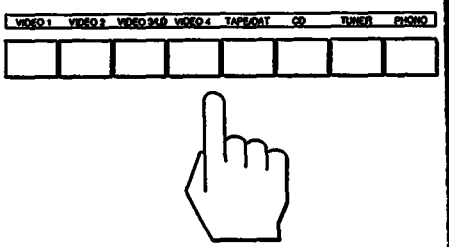
TA-E511



TA-E611

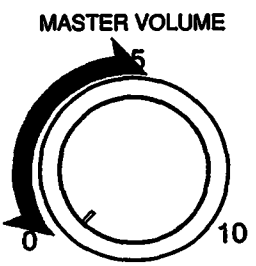
1 Turn on the SYSTEM POWER switch.

2 Select the program source.



3 Play the program source.

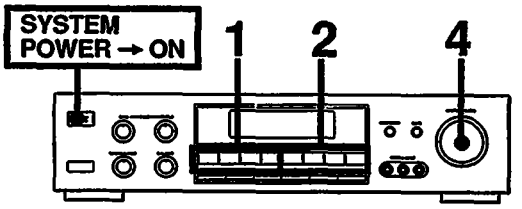
4 Adjust the volume level.



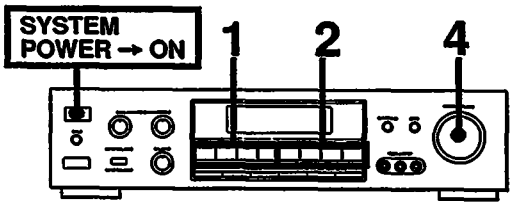
Listening to/Watching Program Source

Combining the Video Image with the Sound from Another Program Source

The unit allows you to combine a video image with sound from another program source as back ground music.

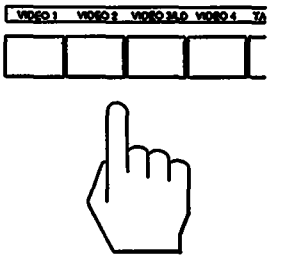


TA-E511

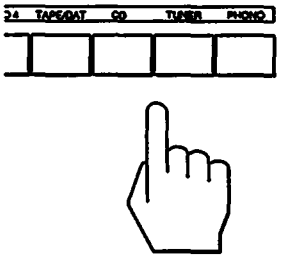


TA-E611

1 Select the video source.

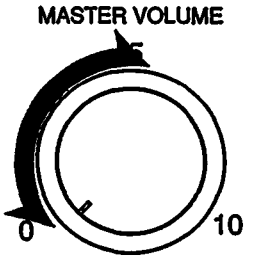


2 Select the audio source.



3 Play both the video and audio program sources.

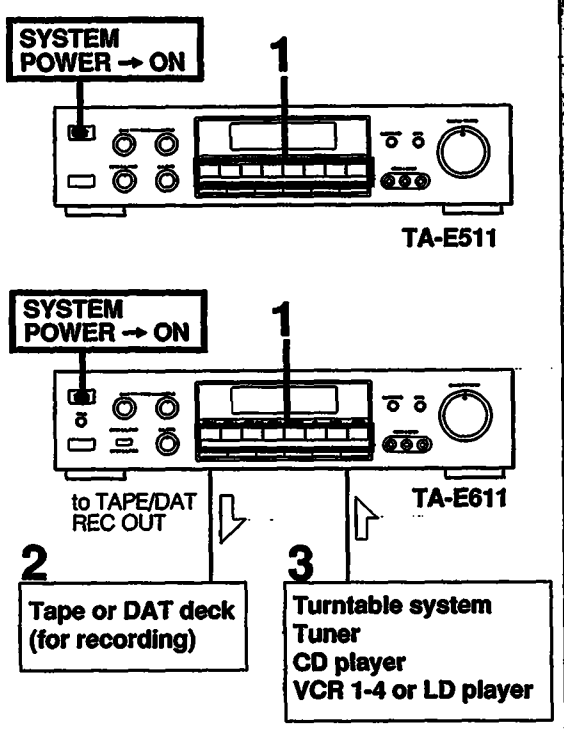
4 Adjust the volume level.



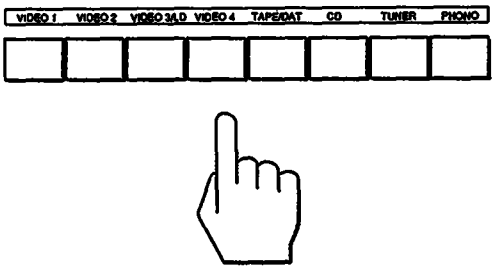
To cancel the combining function
Select the desired video source again.

For watching video source on the monitor TV
Select the video source with FUNCTION selectors.

Recording Audio Program Source



1 Select the program source.



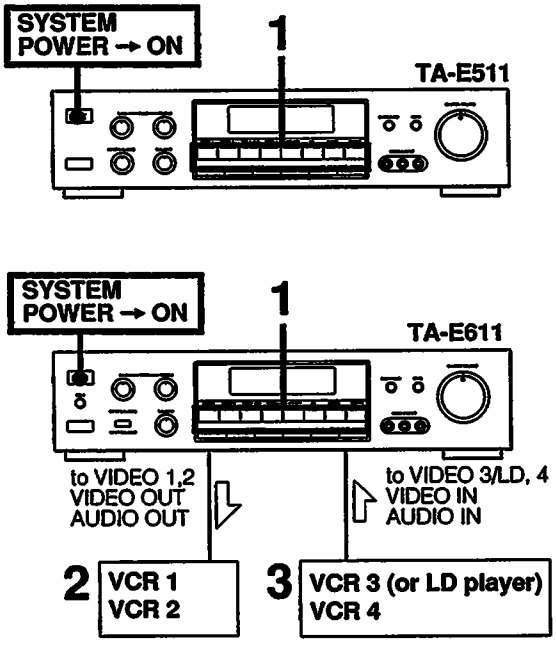
2 Set the tape or DAT deck to the recording mode.

3 Play the selected program source.

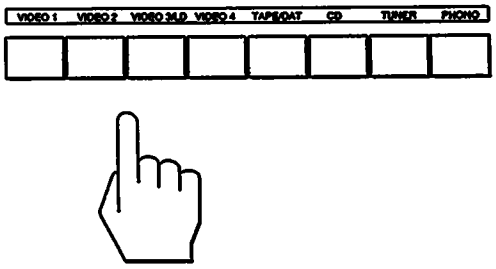
Note
The settings of the MASTER VOLUME, TONE, DBFB, SURROUND, and BALANCE controls do not have any effect on recording.

Recording Video Program Source

You can operate two or more video or tape decks for recording at the same time as the audio (and video) signals of the program source is output simultaneously through all recording output jacks.


SYSTEM POWER → ON
1
TA-E511
SYSTEM POWER → ON
1
TA-E611
to VIDEO 1,2 VIDEO OUT AUDIO OUT
to VIDEO 3/LD, 4 VIDEO IN AUDIO IN
2 VCR 1 VCR 2
3 VCR 3 (or LD player) VCR 4

1 Select the video source, VCR 3 (or LD player), VCR 4.



2 Set the VCR 1 or VCR 2 in the recording mode.

3 Play the selected program source.

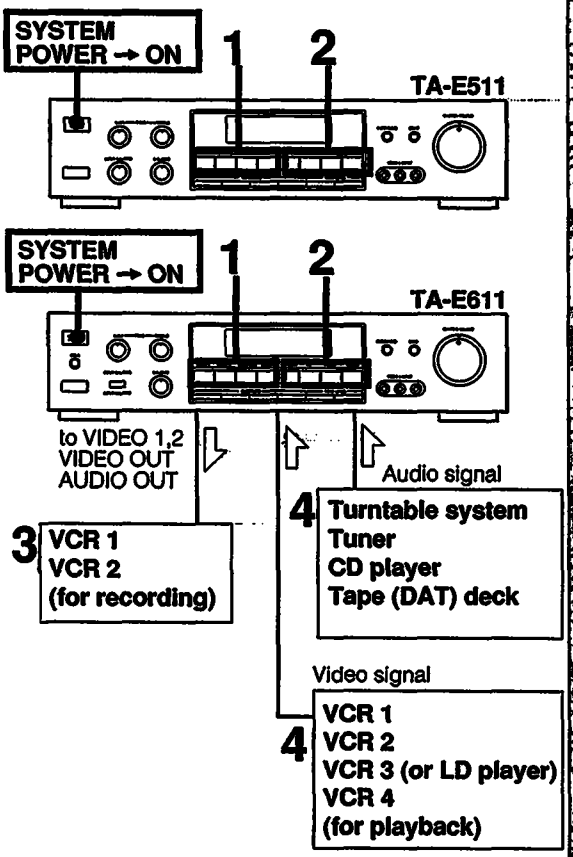
To record onto two tapes at a time – simultaneous recording –
Set both the VCR 1 and VCR 2 to the recording mode.

To record audio signal of video source onto a cassette tape
The audio signal of the program source selected by the FUNCTION selectors is always output from the TAPE/DAT jacks. Set the tape (or DAT) deck connected to the TAPE/DAT jacks to the recording mode.

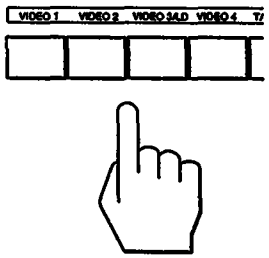
To dub audio/video signal from VCR 1 to VCR 2
1 Select the VCR 1 with the FUNCTION selecctors.
2 Set the VCR 2 to the recording mode.
3 Set the VCR 1 to the playback mode.
In the same way, dubbing from VCR 2 to VCR 1 is possible.

Editing Audio/Video Program Sources

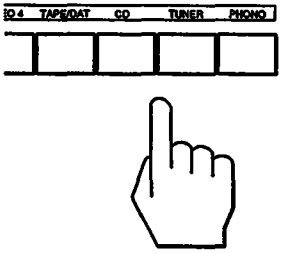
During video tape editing, you can add the desired sound on the recording-side video tape from audio or video program source.



1 Select the video source, VCR 1, VCR 2, VCR 3 (or LD player), or VCR 4 except VCR for recording.



2 Select the audio source.



3 Set the VCR 1 or VCR 2 (for recording) to the recording mode.

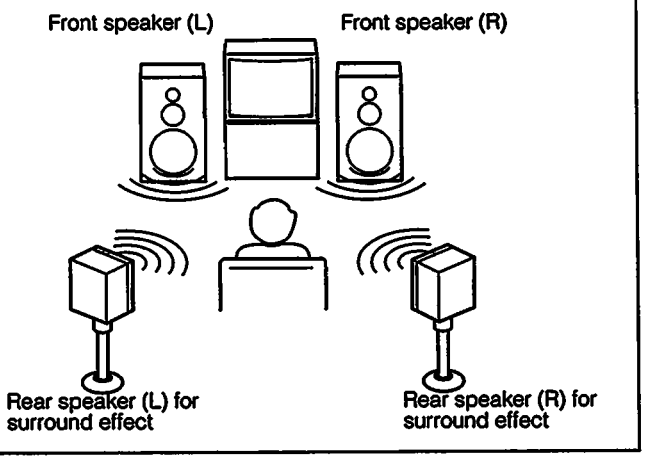
4 Play both the selected program sources.

Getting Ready to Enjoy Surround Sound

Basic Surround Systems

Two front and two rear speakers are necessary to enjoy the surround function.

Location of the rear speaker systems



Selecting surround modes

DOLBY (Dolby Surround) **(TA-E511 only)**
Expands sound just like listening to it in a movie theater.

DOLBY PRO LOGIC (TA-E611 only)
TA-E611 incorporates the Dolby Pro Logic Surround Decoder which has the same functions for playback, such as movie theaters and gives a theater-like experience in your listening room, naturally reproducing the audio sound field.

HALL (Hall Surround)
Provides reverberation effect that is produced in a concert hall.

SIMULATED (Simulated Surround)
Gives a simulated stereo effect to monaural sound.

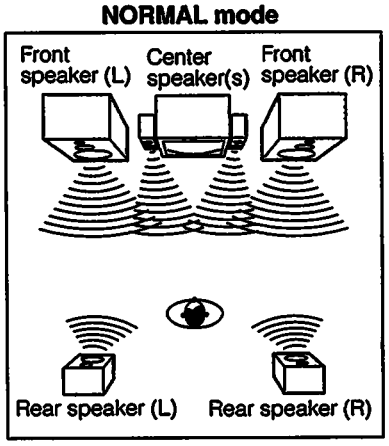
To turn on or off the surround mode
Press the SURROUND button.

Note
No sound will be heard from the surround speakers, unless one of the Surround modes is selected.

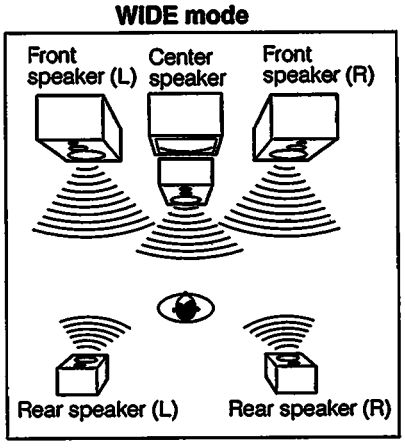
Selecting the Speaker Operation Mode in the Dolby Pro Logic Function (for TA-E611)

One or two center speakers are required in addition to the basic four speakers for the Dolby Pro Logic surround system. In the DOLBY surround mode, a speaker operation mode can be selected to match your speaker system. Press PRO LOGIC MODE button to select the appropriate mode:

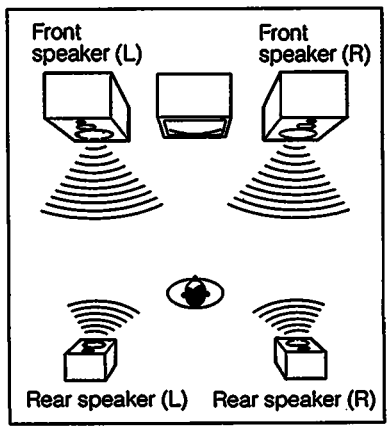
NORMAL mode



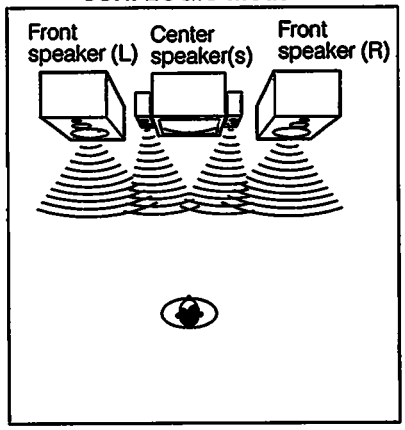
WIDE mode



PHANTOM mode



3CH. LOGIC mode



NORMAL mode
When connecting smaller speaker than front speakers, such as that of TV for a center speaker. The bass sound of the center channel is output from the front speakers, as small speaker cannot produce enough bass.

WIDE mode
When connecting the same size of speaker as front speakers for a center speaker.

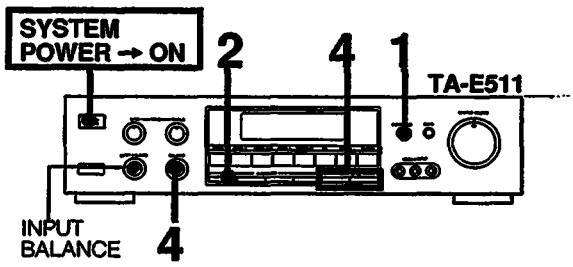
PHANTOM mode
When connecting only front and rear speakers. The sound of the center channel can be heard from the front speakers.

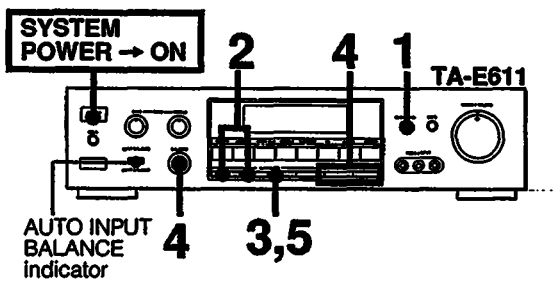
3 CH. LOGIC mode
When connecting front speakers and a center speaker. The sound of the rear channels can be heard from the front speakers.

Note
The amount of the DBFB effect varies according to the Dolby Pro Logic mode.

Adjusting the Surround Level and Input Balance for Dolby Surround System

When playing back a program source processed with Dolby surround system, the surround level and input balance must be adjusted to obtain the best surround effect.

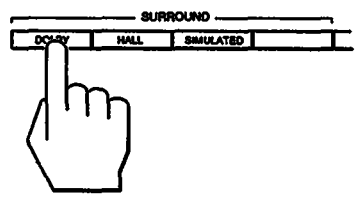




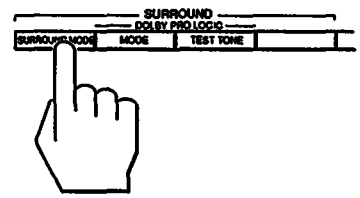
1 Set the surround mode to on.

2 Select the DOLBY surround mode.

TA-E511

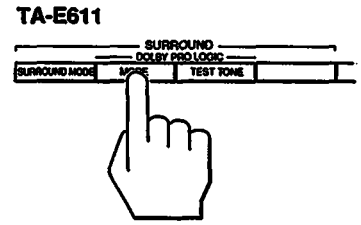


TA-E611



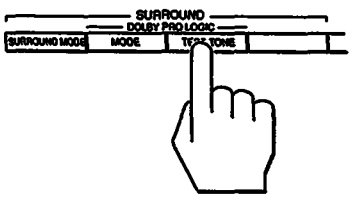
Select the DOLBY PRO LOGIC mode according to your speaker system. (TA-E611 only)

TA-E611



3 Output test tone. (TA-E611 only)
When using the remote commander, press the T.TONE button.

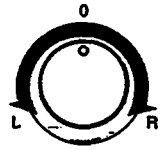
TA-E611



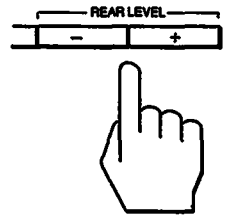
The test tone signal is sent to the left front speaker [L], the center [C], the right front [R], and the rear [S] in succession.

4 Adjust the sound level of front and rear speakers.

For front speakers



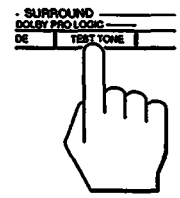
For rear speakers



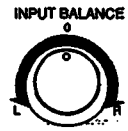
To adjust the sound level of center speaker (TA-E611 only)
Adjust the sound level on the power amplifier connected to the CENTER OUTPUT jacks.

5 Turn off the test tone. (TA-E611 only)
When using the remote commander, press the T.TONE button again.

TA-E611



To adjust input balance (TA-E511)
In the DOLBY surround mode, adjust the INPUT BALANCE control until the monaural sound, such as a dialogue, heard from the surround speakers is minimized.

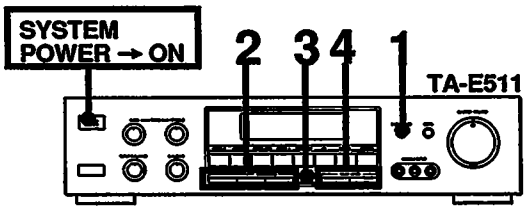


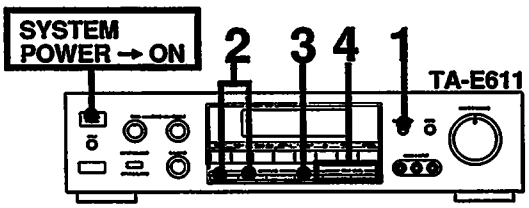
Automatic Input Balance (TA-E611)
The input balance is automatically adjusted. When the adjustment is completed, the AUTO INPUT BALANCE indicator lights up.

Enjoying Surround Sound

Listening to with Surround Effect

The unit has three surround modes, DOLBY, HALL, and SIMULATED which have been preset in the factory. You can enjoy the surround sound effects by just selecting the surround mode according to the program source.

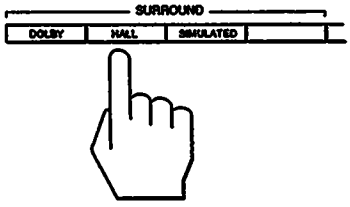




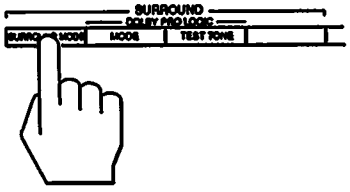
1 Set the surround mode to on.

2 Select a surround mode, HALL, SIMULATED, or DOLBY.

TA-E511

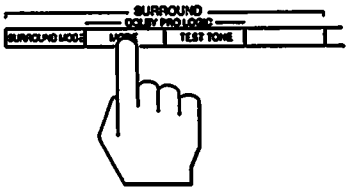


TA-E611



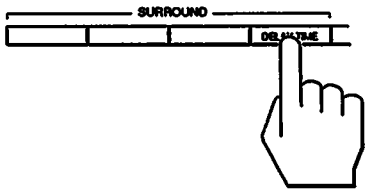
Select the DOLBY PRO LOGIC mode according to your speaker system. (TA-E611 only)

TA-E611

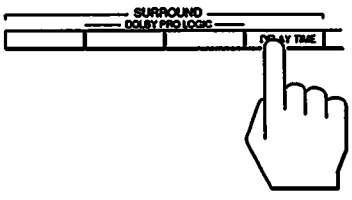


3 Select the delay time, 15 ms, 20 ms, or 30 ms.

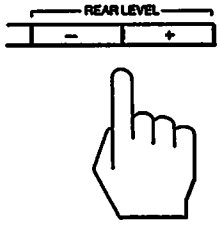
TA-E511



TA-E611



4 Adjust the level of the rear speakers.



To turn off the surround effect
Press SURROUND button again.
The normal sound without surround effect will resume.

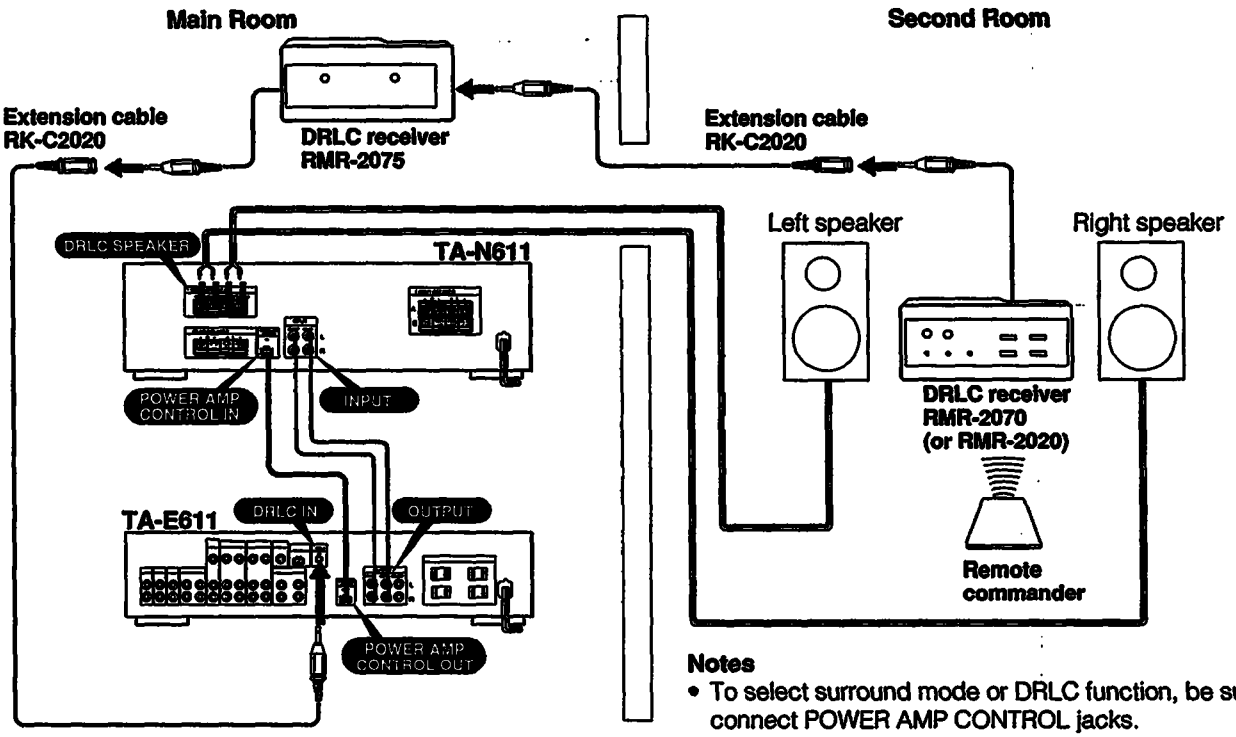
Function of Dual Room Link Control System (TA-E611 only)

Connections for Dual Room Link Control System

The Dual Room Link Control (DRLC) allows you to "link" a second room to your main or primary listening room. When the Dual Room Link Control Kit RM-S2070K or RM-S2020K (optional) and optional speakers are connected to your audio system and they are placed in the second room, either the same program source being played in the main room or a different program source can be heard in the second room.

When using the RM-S2070K

Connect the DRLC RMR-2070, the power amplifier TA-E611, and the speakers for DRLC to the power amplifier.



Notes

- To select surround mode or DRLC function, be sure to connect POWER AMP CONTROL jacks.
- The surround system in the main room and DRLC function cannot be operated simultaneously.

Operations

1 Press DRLC/POWER button. (The SYSTEM POWER switch on the AV control amplifier does not need to be turned on.)
2 Control the system with the remote commander for the second room.

The following examples illustrate program source options for the main and second room:

Listening in the main room	Listening in the second room
CD	FM broad cast
Tape	CD
Sound from TV	Same sound from TV
Off	FM broadcast
Sound from video source (with surround effectt)	Second room system defeated
FM broadcast	Off

Notes

- The surround system in the main room and DRLC function cannot be operated simultaneously.
- When the AV control amplifier receives a remote control signal from the second room, the DRLC indicator flashes. During this period, the AV control amplifier cannot receive the remote control signal in the main room.
- You cannot use the following functions from the second room.
  - Surround effect
  - DBFB effect
  - Tone control
  - BALANCE control

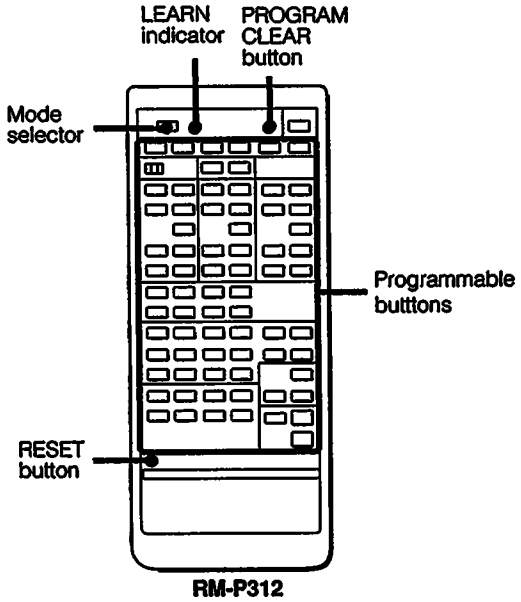
Using the Remote Commander

- When you manipulate buttons on the commander, be sure to point the head of the commander toward the remote control sensor on the front of the AV control amplifier.
- If there is an obstacle between the AV control amplifier and the head of the commander, the AV control amplifier may not be controlled remotely.

Programming Signals of Other Audio/Video Equipment with RM-P312

The RM-P312 can learn various functions of other remote commanders emitting infrared rays and allows you to control most of audio and video equipment from a distance.

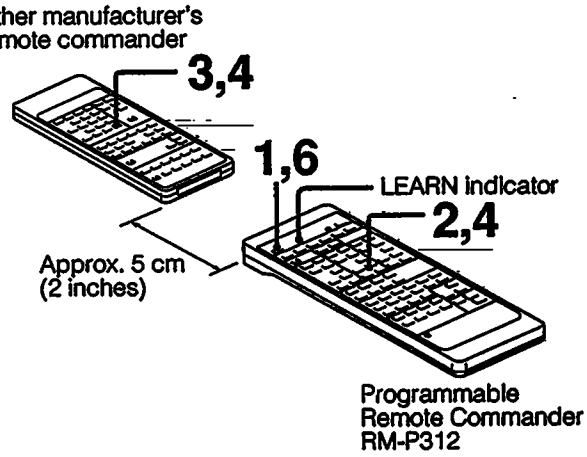
Insert batteries before operation.



RM-P312

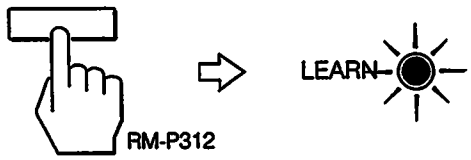
The two remote commanders must:

- be placed straight and head to head.
- be placed at a distance of approx. 5 cm (2 inches).
- not be moved during the programming operation.

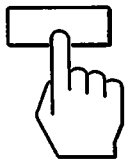


1 Set the mode selector to LEARN.

2 Press and hold the button which shall "learn" the remote-control signal until the LEARN indicator lights up.



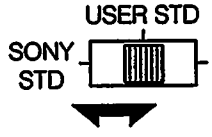
3 Press and hold the button of other manufacturer's remote commander whose signal is to be learned.



4 Remove your finger(s) from the button(s) after the LEARN indicator goes off.

5 Repeat operation for each button to be programmed.

6 Set the mode selector to USER STD or SONY STD.



After programming
Be sure to test if the equipment really works with the programmed signals.

Number of signals that the commander can learn
It depends on the format of the signal. If you program signals of Sony equipment, approximately 50 – 60 signals can be programmed.

If the LEARN indicator flashes or does not go out in steps 2 – 4.
The memory capacity has become full. This occurs when other signals stronger than the remote-control signals have been stored because the signals were programmed in a noisy environment or the remote commanders were placed too far apart from each other.
→ Clear all the signals following the procedure on the right and program again from the beginning under the proper conditions.

Notes on programming
- Remote-control signals of equipment of manufacturers other than Sony can be programmed only when they are compatible with the infrared wireless remote control system. Since the programmable commander can "learn" only the signals output from another remote commander, it cannot control equipment that does not use a remote commander. Also, note that there are some special remote-control signals that cannot be programmed.
- Do not attempt to use the programmable commander with an air conditioner or other household appliances.

To program a new signal onto a previously programmed button

Follow the programming procedure.
The previously programmed signal is cleared and replaced by the new signal.

To clear all programmed signals
1 Set the mode selector to LEARN.
2 Press and hold any button of the programmable area until the LEARN indicator lights up.
3 Press PROGRAM CLEAR until the LEARN indicator flashes and goes off.

Note

It is not possible to clear the programmed content of just one button.

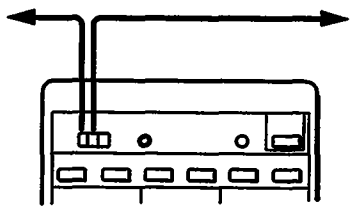
To program a signal onto the ● REC button in the TAPE or VTR section
It is not possible to operate any equipment with only the ● REC button. To program a signal under the ● REC button, press and hold the following buttons at the same time in step 2.

TAPE	DECK/VTR REC MODE REV ● DECK/VTR REC MODE FWD ●
VTR	DECK/VTR REC MODE FWD ●

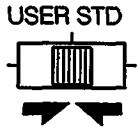
Controlling Equipment

By switching the mode selector as shown below, a single button alternately controls Sony equipment and another manufacturer equipment.

To control Sony equipment



To control equipment with programmed signals



When Sony equipment cannot be remote-controlled
Program the signal in the same way as for equipment from other manufacturers. In this case, even with Sony equipment, set the mode selector to USER STD.

Notes on Battery
If the LEARN indicator does not light when a button is pressed, the batteries are almost exhausted.
When the batteries are exhausted, the remote commander can no longer operate the unit or programming becomes impossible.
If this happens, replace both batteries with new ones. We recommend the use of alkaline batteries for prolonged use.

If no signal has been programmed
The programmable commander can control Sony equipment even when the mode selector is set to USER STD.

If the equipment works incorrectly
Press RESET.
The programmed contents of the buttons are not cleared by pressing RESET.

Specifications

Amplifier section

Harmonic distortion (Front)
Less than 0.02% (at 1 kHz, 1.0 V, Surround/DRLC: off)
Frequency response (Surround/DRLC: off)
PHONO: RIAA equalization curve ±1.0 dB
TUNER, CD, ADAPTOR, TAPE/DAT, VIDEO 1, 2, 3/LD, 4: 20 Hz - 70 kHz ±3.0 dB

Video section

Video input/output
Permissible signal input level
VIDEO 1, 2, 3/LD, 4: 1.5 Vp-p
Output signal level
VIDEO 1, 2, MONITOR: 1 +0.1 Vp-p (with 1 Vp-p input, measured at MONITOR OUT)
Impedance (output)
75-ohm unbalanced, negative sync.

Audio section

Input

Input jack	Jack type	Sensitivity	Impedance
PHONO (MM)	Phono	2.0 mV	50 kohms
TUNER, CD, TAPE/DAT, VIDEO 1, 2, 3/LD, 4, ADAPTOR	Phono	150 mV	50 kohms

'78 IHF

Output

Output jack	Jack type	Sensitivity	Impedance
TAPE/DAT, VIDEO 1, 2, ADAPTOR	Phono	150 mV	470 ohms
OUTPUT FRONT, REAR, CENTER (TA-E611 only)	Phono	1.0 V	1 kohm

Tone controls
BASS: ±7 dB (100 Hz)
TREBLE: ±8 dB (10 kHz)
Dolby input sensitivity
500 mV

General

AV control amplifier
NF type tone control
Digital Delay Surround circuit
Operation circuit matrix type
Power requirements
120 V AC, 60 Hz
Power consumption
TA-E511: 12 W
TA-E611: 20 W
AC outlets 4 switched, 480 W/4 A max.
Dimensions 430 x 105 x 295 mm (w/h/d)
(17 x 4 1/4 x 11 5/8 inches)
Weight 3.3 kg (7 lb 5 oz)
Accessories supplied
Power amp control cord (1)
Audio connecting cord (2)
Remote commander RM-P312 (1)
Sony Batteries SUM-3 (NS) (2)

Design and specifications subject to change without notice.

Troubleshooting

Before proceeding through the check list below, first refer back to the connection and operating procedures.
Should any problem persist after you have made these checks, consult your nearest Sony dealer.

	Trouble	Possible Causes
	Power cannot be turned on.	• Check if the power cord is disconnected from the power outlet.
Audio	No audio.	• Check for faulty connection. (See pages 4 to 6.) • Check for short-circuited speaker terminals. • Check that the function selectors are correctly selected. • The shorting plugs of the ADAPTOR jacks are disconnected. • Check that the connected equipment, such as a graphic equalizer is turned on.
	No sound or sound at very low level is heard from rear speakers.	• Check if the SURROUND mode selector is set to off – no indicators are lit. (See page 18.) • Check if the volume level of the rear speakers is set to minimum. • Check if the monaural program source is played back in Dolby surround mode. • Check if the 3 CH. LOGIC mode is selected in the DOLBY Pro Logic mode. (TA-E611 only) (See page 16.)
	No audio from one channel.	• Check if the BALANCE control is set to an extreme position. • Check if the speaker cord or connection cord is disconnected.
	Distorted audio.	• Check if the audio volume setting is above the maximum permissible input of the speakers.
	Obscure instrument positioning, which lack of bass sound.	• Check if the positive (+) speaker terminal on the main body is not connected to the negative (–) terminal on the speaker, and vice versa.
	Hum or noise.	• Check that the grounding wire of the turntable is connected securely. • Check that the connection cords are inserted securely into jacks.
	Switching on DBFB does not affect the sound	• Source sound does not contain low frequency sound. • DBFB reinforces low frequencies only at low volume level.
Video	No video.	• Check that the connections are correct. (See page 5.) • Check that the function selectors are correctly selected.
	Unclear video, low image quality.	• Check if there is any nearby source of noise.
Programmable Commander	Remote-control operation cannot be performed.	• Check that the batteries are loaded correctly. (See page 8.) • Check if there is any obstacle between the programmable commander and the AV control amplifier. (See page 20.) • Check if the batteries are exhausted. • Check if the mode selector is set to USER STD in remote-control operation using programmed signals. (See page 21.)
	The remote-control signal cannot be programmed. The LEARN indicator does not light.	• Place both remote commanders apart from the source of noise. • The batteries are exhausted. (See page 21.)
	The LEARN indicator goes off after flashing.	• The internal memory capacity is full. (See page 21.)